



# CALIFORNIA

## Agricultural Bulletin



State of California

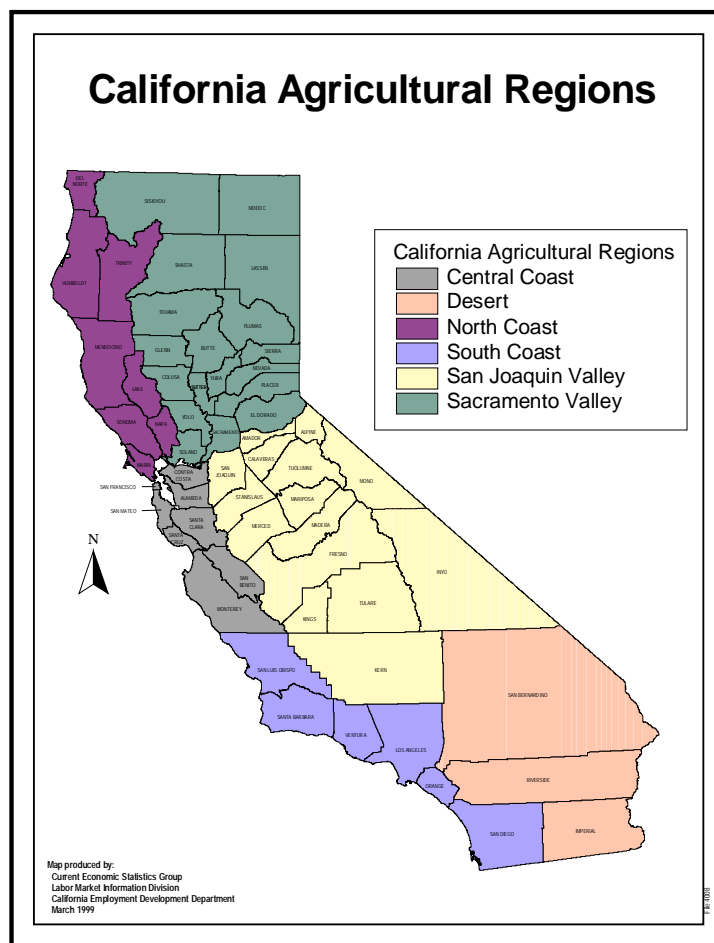
July 1999  
(Internet Version)

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### Agricultural Overview

This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

## Introduction

The July 1999 issue is the seventh California Agricultural Bulletin produced since December 1996. Prior to January 1997, the U.S. Department of Agriculture (USDA) and the Employment Development Department (EDD) conducted separate, overlapping agricultural labor surveys.

Beginning with January 1997 data, EDD in cooperation with the USDA and through a grant from the U.S. Department of Labor has instituted new methods to estimate current agricultural employment, as well as earnings and hours worked based on sampling according to a probabilistic model of selection. EDD will continue to benchmark agricultural employment data yearly. As a result of changes in sampling and estimating procedures, farm employment data prior to January 1997 may not be strictly comparable to current estimates.

## Summary

California agricultural employment for July 1999 registered an increase of 21,600 jobs from the previous month, a gain of 5 percent. All of the increase was posted in Agricultural Production. A seasonal increase in agricultural employment for the month of July is normal. From June 1999 to July 1999, Production/Crops registered an increase of 51,000 jobs, a gain of 24 percent. Production/Livestock increased by 13,000, a gain of 77 percent. Agricultural Services registered a decrease of 42,400 jobs, a loss of 19 percent. Total California Agricultural Employment for July 1999 increased 800 jobs from the July 1998 level. The change in California agricultural employment from June 1998 to July 1998 was an increase of 7,800 jobs.

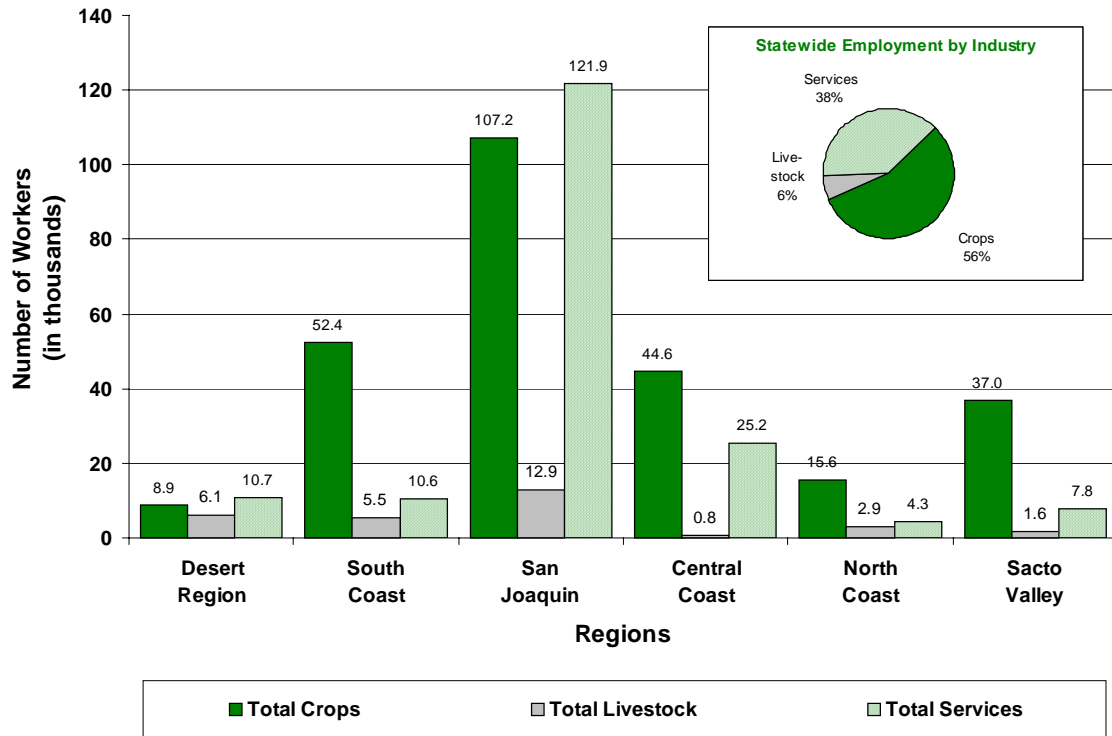
The San Joaquin Valley Region registered an increase of 22,500 jobs from June 1999 to July 1999. Agricultural Production, in this region, increased by 24 percent while Agricultural Services decreased 1 percent from the previous month.

During the month, work in fields progressed normally under favorable conditions in most areas. A few fall melon and second crop cornfields were planted, although most planting activities had been completed. Work crews were busy with treatment and harvesting activities. Rice, cotton, and safflower fields were irrigated, weeded, and sprayed for insects. Vegetable fields were also sprayed for insects. The harvesting of wheat, barley, and oats continued. Work crews also harvested sugarbeets, broccoli, cilantro, leeks, onions, garlic, squash, beans, sweet corn, cantaloupe, honeydew, watermelons, tomatoes, carrots, celery, cucumbers, turnips, peppers, potatoes, corn silage, lettuce and various greens. Alfalfa and sudan grass were cut and baled for hay.

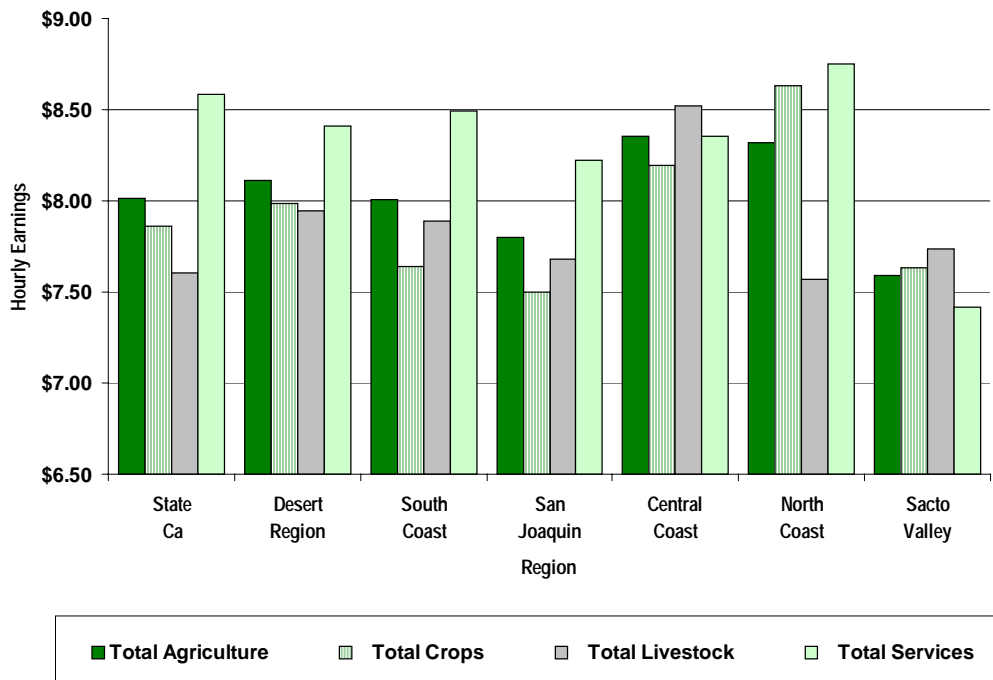
Vineyard activities accelerated as the harvest of table grapes began in the San Joaquin Valley. Pear harvesting was also begun in the Sacramento River delta area. Work crews were also actively picking nectarines, apricots, plums, and peaches. Valencia oranges and lemons were picked in southern California. Almond growers propped tree limbs to support the heavy nut set. Pistachio trees were sprayed with fungicides and walnut trees were treated for blight. Apple trees were treated for codling moths. Other cultural activities included extensive weed control and irrigation of vineyards and orchards.

# Agricultural Summary Charts

## Wage and Salary Workers



## Average Hourly Earnings



# CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>476.0</b>	<b>454.4</b>	<b>475.2</b>
<b>Total Agricultural Production/Crops</b>	<b>265.7</b>	<b>214.7</b>	<b>227.7</b>
Cash Grains	7.1	1.4	2.5
Rice	4.0	0.6	1.4
Other Cash Grains	3.1	0.8	1.1
Field Crops Except Grains	23.3	12.1	15.6
Cotton	7.3	2.1	8.8
Other Field Crops	16.0	10.0	6.8
Vegetables and Melons	68.3	52.1	37.5
Total Fruits and Tree Nuts	94.0	90.2	106.6
Berries	19.3	25.0	25.0
Grapes	32.1	29.1	39.0
Tree Nuts	9.0	7.2	7.8
Citrus Fruits	2.0	1.5	5.1
Deciduous Tree Fruit	14.5	9.3	21.7
Other Fruits & Nuts	17.1	18.1	8.0
Total Horticultural Specialties	36.9	30.9	34.8
Ornamental Floral & Nursery	34.9	29.4	31.2
Food Crops Grown Under Cover	2.0	1.5	3.6
General Farm Primarily Crop	36.1	28.0	30.7
<b>Agricultural Production/Livestock</b>	<b>29.8</b>	<b>16.8</b>	<b>27.1</b>
Beef Cattle Feed Lots	0.5	1.2	0.5
Beef Cattle Except Feed Lots	3.7	0.9	3.3
Dairy Farms	11.4	7.8	15.1
Chicken Eggs	4.2	2.1	2.4
Turkey & Turkey Eggs	1.1	0.7	0.8
Other Livestock	8.9	4.1	5.0
<b>Total Agricultural Services</b>	<b>180.5</b>	<b>222.9</b>	<b>220.4</b>
Soil Preparation Services	2.8	1.5	1.8
Crop Services	45.9	50.8	52.0
Plant Cultivate & Protection	6.5	3.7	7.2
Harvest Primarily by Machine	3.5	10.0	6.5
Preparation Services for Market	35.6	36.8	37.6
Cotton Ginning	0.3	0.3	0.7
Total Farm Labor & Management	131.8	170.6	166.6
Farm Labor Contractors	120.0	157.2	157.0
Farm Management Services	11.8	13.4	9.6

Average Hourly Earnings  
(In dollars per hour)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>8.02</b>	<b>8.02</b>	<b>7.50</b>
<b>Total Agricultural Production/Crops</b>	<b>7.86</b>	<b>7.96</b>	<b>7.14</b>
Cash Grains	8.11	7.89	7.46
Rice	8.49	8.28	7.75
Other Cash Grains	7.74	7.49	7.17
Field Crops Except Grains	7.74	7.80	6.78
Cotton	7.70	7.64	6.75
Other Field Crops	7.77	7.96	6.81
Vegetables and Melons	7.94	7.97	7.56
Total Fruits and Tree Nuts	7.79	7.92	6.84
Berries	8.22	8.12	6.70
Grapes	7.90	8.20	6.96
Tree Nuts	7.81	7.94	6.76
Citrus Fruits	7.75	8.26	7.31
Deciduous Tree Fruit	7.25	7.25	6.44
Other Fruits & Nuts	7.82	7.78	6.87
Total Horticultural Specialties	7.88	8.27	7.49
Ornamental Floral & Nursery	8.10	8.27	6.93
Food Crops Grown Under Cover	7.66	8.27	8.05
General Farm Primarily Crop	7.72	7.89	6.71
<b>Agricultural Production/Livestock</b>	<b>7.60</b>	<b>7.54</b>	<b>7.57</b>
Beef Cattle Feed Lots	8.05	8.17	7.13
Beef Cattle Except Feed Lots	8.05	8.00	8.27
Dairy Farms	8.39	8.62	7.89
Chicken Eggs	6.44	6.23	7.11
Turkey & Turkey Eggs	6.54	5.90	7.58
Other Livestock	8.16	8.30	7.48
<b>Total Agricultural Services</b>	<b>8.58</b>	<b>8.58</b>	<b>7.78</b>
Soil Preparation Services	9.15	9.00	8.76
Crop Services	8.88	8.95	7.81
Plant Cultivate & Protection	8.21	8.27	7.50
Harvest Primarily by Machine	8.63	8.67	7.83
Preparation Services for Market	8.04	8.32	7.49
Cotton Ginning	10.65	10.55	8.43
Total Farm Labor & Management	7.72	7.79	6.76
Farm Labor Contractors	7.37	7.32	6.61
Farm Management Services	8.07	8.26	6.91

# CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>70.6</b>	<b>69.5</b>	<b>72.3</b>
<b>Total Agricultural Products/Crops</b>	<b>44.6</b>	<b>36.6</b>	<b>44.8</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	4.8	1.2	0.2
Cotton	0.0	0.0	0.0
Other Field Crops	4.8	1.2	0.2
Vegetables and Melons	18.6	12.9	16.7
Total Fruits and Tree Nuts	9.6	10.0	16.1
Berries	7.4	8.5	13.3
Grapes	0.1	0.1	1.2
Tree Nuts	0.2	1.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.2	0.4	1.2
Other Fruits & Nuts	1.7	0.0	0.3
Total Horticultural Specialties	9.2	11.3	9.0
Ornamental Floral & Nursery	7.3	11.3	6.9
Food Crops Grown Under Cover	1.9	0.0	2.1
General Farm Primarily Crop	2.4	1.2	2.8
<b>Agricultural Production/Livestock</b>	<b>0.8</b>	<b>0.1</b>	<b>1.0</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.4
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.8	0.1	0.3
<b>Total Agricultural Services</b>	<b>25.2</b>	<b>32.8</b>	<b>26.5</b>
Soil Preparation Services	0.9	0.1	0.7
Crop Services	5.6	14.5	10.5
Plant Cultivate & Protection	1.8	0.3	0.8
Harvest Primarily by Machine	1.4	6.4	2.1
Preparation Services for Market	2.4	7.8	7.6
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	18.7	18.2	15.3
Farm Labor Contractors	18.7	18.1	14.4
Farm Management Services	0.0	0.1	0.9

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>8.36</b>	<b>8.30</b>	<b>7.71</b>
<b>Total Agricultural Products/Crops</b>	<b>8.20</b>	<b>7.99</b>	<b>7.54</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	8.57	8.23	6.70
Cotton	na	na	na
Other Field Crops	8.57	8.23	6.70
Vegetables and Melons	8.69	8.05	8.10
Total Fruits and Tree Nuts	7.70	8.31	7.20
Berries	8.45	8.15	7.15
Grapes	7.28	8.50	6.80
Tree Nuts	8.00	8.14	7.45
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.40	8.44	6.82
Other Fruits & Nuts	7.36	na	7.77
Total Horticultural Specialties	8.13	7.96	7.71
Ornamental Floral & Nursery	8.20	7.96	7.13
Food Crops Grown Under Cover	8.06	na	8.29
General Farm Primarily Crop	7.89	7.42	7.16
<b>Agricultural Production/Livestock</b>	<b>8.52</b>	<b>8.19</b>	<b>7.63</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	8.00
Dairy Farms	na	na	7.85
Chicken Eggs	na	na	7.00
Turkey & Turkey Eggs	na	na	7.53
Other Livestock	8.52	8.19	7.75
<b>Total Agricultural Services</b>	<b>8.35</b>	<b>8.73</b>	<b>7.97</b>
Soil Preparation Services	9.00	9.40	8.90
Crop Services	8.46	8.83	8.00
Plant Cultivate & Protection	8.38	8.63	7.70
Harvest Primarily by Machine	9.13	9.37	7.94
Preparation Services for Market	7.87	8.50	8.36
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.60	7.95	7.02
Farm Labor Contractors	7.60	7.23	6.94
Farm Management Services	na	8.67	7.10

# DESERT AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>25.7</b>	<b>48.0</b>	<b>37.7</b>
<b>Total Agricultural Production/Crops</b>	<b>8.9</b>	<b>13.4</b>	<b>12.0</b>
Cash Grains	0.0	0.2	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.2	0.1
Field Crops Except Grains	1.0	1.1	1.9
Cotton	0.0	0.2	0.0
Other Field Crops	1.0	0.9	1.9
Vegetables and Melons	1.3	0.5	1.4
Total Fruits and Tree Nuts	2.5	7.7	5.8
Berries	0.0	0.6	0.2
Grapes	1.0	1.5	4.3
Tree Nuts	0.0	0.1	0.1
Citrus Fruits	0.0	0.0	0.4
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	1.5	5.5	0.7
Total Horticultural Specialties	1.6	2.1	1.3
Ornamental Floral & Nursery	1.6	1.7	1.2
Food Crops Grown Under Cover	0.0	0.4	0.1
General Farm Primarily Crop	2.5	1.8	1.5
<b>Agricultural Production/Livestock</b>	<b>6.1</b>	<b>2.4</b>	<b>5.5</b>
Beef Cattle Feed Lots	0.2	0.2	0.3
Beef Cattle Except Feed Lots	1.6	0.1	0.5
Dairy Farms	1.3	0.5	2.8
Chicken Eggs	2.4	1.0	1.2
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.6	0.6	0.7
<b>Total Agricultural Services</b>	<b>10.7</b>	<b>32.2</b>	<b>20.2</b>
Soil Preparation Services	0.4	0.4	0.2
Crop Services	1.8	5.0	5.5
Plant Cultivate & Protection	0.3	0.1	0.5
Harvest Primarily by Machine	0.6	0.8	1.2
Preparation Services for Market	0.9	4.1	3.7
Cotton Ginning	0.0	0.0	0.1
Total Farm Labor & Management	8.5	26.8	14.5
Farm Labor Contractors	7.4	25.0	13.6
Farm Management Services	1.1	1.8	0.9

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>8.11</b>	<b>8.24</b>	<b>7.32</b>
<b>Total Agricultural Production/Crops</b>	<b>7.98</b>	<b>8.09</b>	<b>6.87</b>
Cash Grains	na	7.48	6.75
Rice	na	na	na
Other Cash Grains	na	7.48	6.75
Field Crops Except Grains	8.28	7.73	6.63
Cotton	na	7.49	na
Other Field Crops	8.28	7.97	6.63
Vegetables and Melons	7.53	8.18	6.82
Total Fruits and Tree Nuts	8.12	8.22	6.61
Berries	na	7.91	6.15
Grapes	7.60	8.12	6.98
Tree Nuts	na	8.01	6.20
Citrus Fruits	na	na	7.10
Deciduous Tree Fruit	na	na	6.35
Other Fruits & Nuts	8.63	8.83	6.90
Total Horticultural Specialties	8.56	8.84	7.20
Ornamental Floral & Nursery	8.56	8.73	6.40
Food Crops Grown Under Cover	na	8.94	8.00
General Farm Primarily Crop	7.43	8.11	7.18
<b>Agricultural Production/Livestock</b>	<b>7.94</b>	<b>8.23</b>	<b>7.61</b>
Beef Cattle Feed Lots	7.60	7.66	7.00
Beef Cattle Except Feed Lots	7.94	8.54	8.00
Dairy Farms	8.87	9.67	9.05
Chicken Eggs	6.52	6.61	6.85
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.79	8.69	7.17
<b>Total Agricultural Services</b>	<b>8.41</b>	<b>8.39</b>	<b>7.47</b>
Soil Preparation Services	9.05	9.28	8.50
Crop Services	8.31	8.45	7.15
Plant Cultivate & Protection	8.42	8.90	6.75
Harvest Primarily by Machine	8.55	8.01	6.50
Preparation Services for Market	7.95	8.44	6.85
Cotton Ginning	na	na	8.50
Total Farm Labor & Management	7.87	7.43	6.75
Farm Labor Contractors	7.98	7.76	6.70
Farm Management Services	7.76	7.09	6.80

# NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>22.8</b>	<b>21.9</b>	<b>16.8</b>
<b>Total Agricultural Production/Crops</b>	<b>15.6</b>	<b>14.9</b>	<b>12.7</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.0
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.0
Vegetables and Melons	3.5	6.0	0.3
Total Fruits and Tree Nuts	9.3	8.1	10.6
Berries	0.0	0.0	0.0
Grapes	8.8	7.2	9.2
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.5	0.5	1.1
Other Fruits & Nuts	0.0	0.4	0.2
Total Horticultural Specialties	0.6	0.7	1.5
Ornamental Floral & Nursery	0.6	0.7	1.3
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	2.2	0.1	0.3
<b>Agricultural Production/Livestock</b>	<b>2.9</b>	<b>2.1</b>	<b>1.8</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.2	0.3	0.2
Dairy Farms	2.2	0.5	1.0
Chicken Eggs	0.2	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.3	1.3	0.4
<b>Total Agricultural Services</b>	<b>4.3</b>	<b>4.9</b>	<b>2.3</b>
Soil Preparation Services	0.0	0.3	0.0
Crop Services	0.0	0.2	0.2
Plant Cultivate & Protection	0.0	0.0	0.0
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.0	0.2	0.2
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	4.3	4.4	2.1
Farm Labor Contractors	0.7	1.8	0.7
Farm Management Services	3.6	2.6	1.4

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>8.32</b>	<b>8.43</b>	<b>7.40</b>
<b>Total Agricultural Production/Crops</b>	<b>8.63</b>	<b>8.48</b>	<b>7.21</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	na
Cotton	na	na	na
Other Field Crops	na	na	na
Vegetables and Melons	9.12	9.00	8.25
Total Fruits and Tree Nuts	8.12	7.97	7.14
Berries	na	na	na
Grapes	8.80	9.28	7.96
Tree Nuts	na	na	6.88
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.43	6.82	7.23
Other Fruits & Nuts	na	7.81	6.50
Total Horticultural Specialties	8.44	7.97	7.22
Ornamental Floral & Nursery	8.44	7.97	6.73
Food Crops Grown Under Cover	na	na	7.70
General Farm Primarily Crop	8.86	8.98	6.25
<b>Agricultural Production/Livestock</b>	<b>7.57</b>	<b>7.82</b>	<b>7.67</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	7.75	7.47	8.25
Dairy Farms	7.93	7.93	7.05
Chicken Eggs	6.79	na	7.55
Turkey & Turkey Eggs	na	na	7.70
Other Livestock	7.80	8.05	7.79
<b>Total Agricultural Services</b>	<b>8.75</b>	<b>8.99</b>	<b>7.32</b>
Soil Preparation Services	na	9.20	na
Crop Services	na	8.91	7.50
Plant Cultivate & Protection	na	na	na
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	na	8.91	7.50
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.75	8.86	7.15
Farm Labor Contractors	7.87	8.16	6.55
Farm Management Services	9.63	9.55	7.74

na = not available

# SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>68.5</b>	<b>70.8</b>	<b>66.1</b>
<b>Total Agricultural Production/Crops</b>	<b>52.4</b>	<b>47.7</b>	<b>46.6</b>
Cash Grains	0.0	0.1	0.2
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.1	0.2
Field Crops Except Grains	2.4	0.2	0.4
Cotton	0.0	0.0	0.1
Other Field Crops	2.4	0.2	0.3
Vegetables and Melons	8.5	7.5	8.0
Total Fruits and Tree Nuts	21.2	22.2	16.8
Berries	11.9	15.9	11.4
Grapes	0.5	0.9	1.7
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	1.7	1.0	1.9
Deciduous Tree Fruit	0.0	0.1	0.1
Other Fruits & Nuts	7.1	4.3	1.6
Total Horticultural Specialties	16.9	14.3	16.9
Ornamental Floral & Nursery	16.8	13.3	16.0
Food Crops Grown Under Cover	0.1	1.0	0.9
General Farm Primarily Crop	3.4	3.4	4.3
<b>Agricultural Production/Livestock</b>	<b>5.5</b>	<b>0.7</b>	<b>2.0</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.3
Dairy Farms	0.2	0.0	0.2
Chicken Eggs	1.0	0.4	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	4.3	0.3	1.1
<b>Total Agricultural Services</b>	<b>10.6</b>	<b>22.4</b>	<b>17.5</b>
Soil Preparation Services	1.1	0.0	0.2
Crop Services	1.1	3.0	3.9
Plant Cultivate & Protection	0.7	0.1	0.6
Harvest Primarily by Machine	0.0	0.0	0.4
Preparation Services for Market	0.4	2.9	2.9
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	8.4	19.4	13.4
Farm Labor Contractors	6.1	15.4	12.1
Farm Management Services	2.3	4.0	1.3

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>8.01</b>	<b>8.08</b>	<b>7.57</b>
<b>Total Agricultural Production/Crops</b>	<b>7.64</b>	<b>7.90</b>	<b>7.09</b>
Cash Grains	na	7.59	7.04
Rice	na	na	na
Other Cash Grains	na	7.59	7.04
Field Crops Except Grains	7.56	8.39	6.73
Cotton	na	na	6.70
Other Field Crops	7.56	8.39	6.75
Vegetables and Melons	7.64	8.25	7.35
Total Fruits and Tree Nuts	8.29	7.70	6.90
Berries	7.99	8.29	7.01
Grapes	8.75	8.74	6.75
Tree Nuts	na	na	6.80
Citrus Fruits	8.12	7.74	7.75
Deciduous Tree Fruit	na	6.13	6.00
Other Fruits & Nuts	8.29	7.61	7.08
Total Horticultural Specialties	7.59	7.74	7.65
Ornamental Floral & Nursery	7.92	7.98	6.90
Food Crops Grown Under Cover	7.25	7.49	8.40
General Farm Primarily Crop	7.13	7.76	6.85
<b>Agricultural Production/Livestock</b>	<b>7.89</b>	<b>8.04</b>	<b>7.95</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	8.20
Dairy Farms	8.43	na	8.50
Chicken Eggs	5.90	5.88	6.90
Turkey & Turkey Eggs	na	na	na
Other Livestock	9.34	10.20	8.21
<b>Total Agricultural Services</b>	<b>8.49</b>	<b>8.30</b>	<b>7.67</b>
Soil Preparation Services	9.61	na	8.30
Crop Services	8.48	8.43	7.70
Plant Cultivate & Protection	8.37	8.37	7.45
Harvest Primarily by Machine	na	na	7.85
Preparation Services for Market	8.58	8.49	7.80
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.40	8.16	7.02
Farm Labor Contractors	7.01	7.95	6.94
Farm Management Services	7.78	8.37	7.10

na = not available



# SAN JOAQUIN AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>242.0</b>	<b>219.5</b>	<b>248.9</b>
<b>Total Agricultural Production/Crops</b>	<b>107.2</b>	<b>86.3</b>	<b>89.4</b>
Cash Grains	1.2	0.5	0.4
Rice	0.0	0.0	0.1
Other Cash Grains	1.2	0.5	0.3
Field Crops Except Grains	12.8	7.3	11.8
Cotton	7.3	1.9	8.7
Other Field Crops	5.5	5.4	3.1
Vegetables and Melons	23.0	21.5	7.8
Total Fruits and Tree Nuts	41.1	36.2	48.6
Berries	0.0	0.0	0.1
Grapes	21.0	18.4	21.6
Tree Nuts	4.8	3.4	5.0
Citrus Fruits	0.3	0.5	2.8
Deciduous Tree Fruit	10.0	6.4	14.9
Other Fruits & Nuts	5.0	7.5	4.2
Total Horticultural Specialties	7.1	2.1	3.8
Ornamental Floral & Nursery	7.1	2.0	3.7
Food Crops Grown Under Cover	0.0	0.1	0.1
General Farm Primarily Crop	22.0	18.7	17.0
<b>Agricultural Production/Livestock</b>	<b>12.9</b>	<b>10.6</b>	<b>15.1</b>
Beef Cattle Feed Lots	0.3	1.0	0.2
Beef Cattle Except Feed Lots	1.2	0.2	1.3
Dairy Farms	7.2	6.5	10.5
Chicken Eggs	0.6	0.7	0.6
Turkey & Turkey Eggs	1.1	0.7	0.6
Other Livestock	2.5	1.5	1.9
<b>Total Agricultural Services</b>	<b>121.9</b>	<b>122.6</b>	<b>144.4</b>
Soil Preparation Services	0.4	0.7	0.6
Crop Services	35.3	25.8	29.0
Plant Cultivate & Protection	3.4	2.3	4.5
Harvest Primarily by Machine	1.2	2.8	2.4
Preparation Services for Market	30.4	20.4	21.5
Cotton Ginning	0.3	0.3	0.6
Total Farm Labor & Management	86.2	96.1	114.8
Farm Labor Contractors	81.4	91.4	110.0
Farm Management Services	4.8	4.7	4.8

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>7.80</b>	<b>7.63</b>	<b>7.59</b>
<b>Total Agricultural Production/Crops</b>	<b>7.50</b>	<b>7.64</b>	<b>7.03</b>
Cash Grains	7.90	7.41	7.70
Rice	na	na	8.00
Other Cash Grains	7.90	7.41	7.40
Field Crops Except Grains	7.27	7.54	6.73
Cotton	7.70	7.78	6.80
Other Field Crops	6.83	7.29	6.65
Vegetables and Melons	7.19	6.92	7.11
Total Fruits and Tree Nuts	7.35	7.60	6.54
Berries	na	na	6.50
Grapes	7.56	7.08	6.65
Tree Nuts	7.59	7.54	6.45
Citrus Fruits	7.38	8.77	7.08
Deciduous Tree Fruit	6.96	7.13	5.90
Other Fruits & Nuts	7.26	7.47	6.65
Total Horticultural Specialties	7.68	8.67	7.67
Ornamental Floral & Nursery	7.68	8.97	7.25
Food Crops Grown Under Cover	na	8.37	8.08
General Farm Primarily Crop	7.61	7.72	6.42
<b>Agricultural Production/Livestock</b>	<b>7.68</b>	<b>7.30</b>	<b>7.60</b>
Beef Cattle Feed Lots	8.50	8.68	7.25
Beef Cattle Except Feed Lots	8.23	7.49	8.99
Dairy Farms	8.89	8.34	7.80
Chicken Eggs	6.54	6.21	7.25
Turkey & Turkey Eggs	6.54	5.90	7.50
Other Livestock	7.37	7.20	6.82
<b>Total Agricultural Services</b>	<b>8.22</b>	<b>7.95</b>	<b>8.15</b>
Soil Preparation Services	8.93	8.11	9.80
Crop Services	8.61	8.56	8.10
Plant Cultivate & Protection	8.04	7.39	8.10
Harvest Primarily by Machine	8.35	8.64	9.10
Preparation Services for Market	7.39	7.66	6.86
Cotton Ginning	10.65	10.55	8.35
Total Farm Labor & Management	7.13	7.17	6.54
Farm Labor Contractors	7.16	6.54	6.39
Farm Management Services	7.09	7.79	6.69

na = not available

# SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>46.4</b>	<b>24.7</b>	<b>33.4</b>
<b>Total Agricultural Production/Crops</b>	<b>37.0</b>	<b>15.8</b>	<b>22.2</b>
Cash Grains	5.9	0.6	1.8
Rice	4.0	0.6	1.3
Other Cash Grains	1.9	0.0	0.5
Field Crops Except Grains	2.3	2.3	1.3
Cotton	0.0	0.0	0.0
Other Field Crops	2.3	2.3	1.3
Vegetables and Melons	13.4	3.7	3.3
Total Fruits and Tree Nuts	10.3	6.0	8.7
Berries	0.0	0.0	0.0
Grapes	0.7	1.0	1.0
Tree Nuts	4.0	2.7	2.4
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	3.8	1.9	4.3
Other Fruits & Nuts	1.8	0.4	1.0
Total Horticultural Specialties	1.5	0.4	2.3
Ornamental Floral & Nursery	1.5	0.4	2.1
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	3.6	2.8	4.8
<b>Agricultural Production/Livestock</b>	<b>1.6</b>	<b>0.9</b>	<b>1.7</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.7	0.3	0.6
Dairy Farms	0.5	0.3	0.5
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.4	0.3	0.6
<b>Total Agricultural Services</b>	<b>7.8</b>	<b>8.0</b>	<b>9.5</b>
Soil Preparation Services	0.0	0.0	0.1
Crop Services	2.1	2.3	2.9
Plant Cultivate & Protection	0.3	0.9	0.8
Harvest Primarily by Machine	0.3	0.0	0.4
Preparation Services for Market	1.5	1.4	1.7
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	5.7	5.7	6.5
Farm Labor Contractors	5.7	5.5	6.2
Farm Management Services	0.0	0.2	0.3

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Jul 1999	Jun 1999	Jul 1998
<b>Total Agriculture</b>	<b>7.59</b>	<b>7.84</b>	<b>7.30</b>
<b>Total Agricultural Production/Crops</b>	<b>7.63</b>	<b>7.76</b>	<b>7.11</b>
Cash Grains	8.03	8.28	7.49
Rice	8.49	8.28	7.50
Other Cash Grains	7.57	na	7.47
Field Crops Except Grains	7.63	7.93	7.32
Cotton	na	na	na
Other Field Crops	7.63	7.93	7.32
Vegetables and Melons	7.44	7.40	7.70
Total Fruits and Tree Nuts	7.50	7.62	6.51
Berries	na	na	na
Grapes	7.43	7.48	6.62
Tree Nuts	7.84	8.08	6.75
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.19	7.74	6.35
Other Fruits & Nuts	7.55	7.18	6.30
Total Horticultural Specialties	7.81	7.99	7.48
Ornamental Floral & Nursery	7.81	7.99	7.15
Food Crops Grown Under Cover	na	na	7.80
General Farm Primarily Crop	7.39	7.36	6.40
<b>Agricultural Production/Livestock</b>	<b>7.73</b>	<b>8.16</b>	<b>7.46</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.28	8.49	8.15
Dairy Farms	7.81	8.53	7.10
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	7.11	7.47	7.12
<b>Total Agricultural Services</b>	<b>7.41</b>	<b>7.58</b>	<b>7.32</b>
Soil Preparation Services	na	na	8.30
Crop Services	8.25	7.98	7.60
Plant Cultivate & Protection	7.86	8.06	7.50
Harvest Primarily by Machine	8.47	na	7.75
Preparation Services for Market	8.41	7.90	7.56
Cotton Ginning	na	na	na
Total Farm Labor & Management	6.58	7.18	6.07
Farm Labor Contractors	6.58	6.30	6.14
Farm Management Services	na	8.06	6.00

## DATA NOTES

### Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12<sup>th</sup> calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

### Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **March 1999 Agricultural Services employment data have been adjusted to reflect a recalculation of the survey sample results. Historical trend information was used to adjust sample data because of a low response rate. February 1999 Agricultural Services employment data were similarly adjusted.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.

Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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